

Message Text

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ACTION SSM-05

INFO OCT-01 NEA-10 ISO-00 SSO-00 OC-05 CCO-00 SS-15 NSC-05

L-03 IO-11 INR-07 CIAE-00 SAB-01 SAM-01 AID-05 IGA-02

ACDA-05 DODE-00 INRE-00 /076 W

----- 127198

O R 041710Z MAR 76

FM USMISSION SINAI

TO SECSTATE WASHDC IMMEDIATE 0119

INFO AMEMBASSY TEL AVIV

AMEMBASSY CAIRO

C O N F I D E N T I A L SINAI 0208

E.O. 11652: GDS

TAGS: PFOR, EG, IS

SUBJECT: DIRECT COMMUNICATION BETWEEN SFM AND
TERMINALS IN CAIRO AND JERUSALEM

REF: A. SINAI 15724

B. SINAI 0162

C. STATE 049715

D. STATE 052175

STATE FOR STILES (SSM)

TEL AVIV FOR LARSEN

CAIRO FOR CLEVELAND

1. WITH REGARD TO REF D, PARA 2, APPROVAL WAS RECEIVED
FROM COL. LEVINSON ON 3 MARCH TO MAKE PERMANENT THE
INSTALLATION THROUGH JA-1. REPEATERS AT YARIK AND RAMAT/
RAZIEL NO LONGER UNDER CONSIDERATION.

2. WITH RESPECT TO CAIRO LINK, DISCUSSION CONCERNING
ALTERNATIVES TO REPEATER LINK FROM ISMAILIA TO CAIRO WERE
HELD WITH GEN. RIFATT AND COL. NABI OF THE EGYPTIAN
MINISTRY OF WAR ON 3 MARCH. IT WAS AGREED THAT VHF LINK
COULD BE ESTABLISHED FROM SFM TO SUEZ CITY, AND THAT
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AN EXISTING TELEPHONE LINE FROM SUEZ TO CAIRO COULD BE

USED. VISUAL LINE OF SIGHT IS OBTAINABLE BETWEEN SFM AND SUEZ CITY. COL. NEIGI, 3RD EGYPTIAN ARMY DESIRES TO HAVE THE SUEZ TERMINAL LOCATED IN HIS BUILDING IN SUEZ. HE WILL PROVIDE PRIMARY POWER AS WELL AS SPACE FOR EQUIPMENT. ANTENNA TOWER CAN BE INSTALLED ON TOP OF HIS BUILDING. TELEPHONE CABLE FROM SUEZ TO CAIRO IS ALREADY ACCESSIBLE IN BUILDING.

3. ON 4 MARCH TECHNICAL DISCUSSIONS WERE HELD WITH LTC SAMI SEOUDY AT E-1. THIS DISCUSSION WAS HELD AT THE SUGGESTION OF GEN. RIFATT. THE INTERFACE SPECIFICATIONS FOR THE TELEPHONE LINE BETWEEN SUEZ AND CAIRO WERE OBTAINED. ALSO, INFORMATION RELATING TO THE REQUIRED MODEMS WAS DISCUSSED.

4. AS A RESULT OF THE 3 AND 4 MARCH MEETINGS THE ARCHITECTURE OF THE SFM - MOW COMMUNICATIONS SYSTEM WAS ESTABLISHED AND RESPONSIBILITIES FOR EQUIPMENT PROCUREMENT INSTALLATION AND MAINTENANCE DETERMINED. BASICALLY THE SYSTEM WILL CONSIST OF A SFM SUB-SYSTEM, A SUEZ SUB-SYSTEM, AND A CAIRO SUB-SYSTEM. THE SFM/SUEZ SUB-SYSTEM WILL BE CONNECTED THROUGH A FULL DUPLEX VHF LINK. THE SUEZ/CAIRO SUB-SYSTEM WILL BE CONNECTED THROUGH A TELEPHONE CABLE. A CARRIER SYSTEM UTILIZING A 2100 HZ SIGNAL IS EMPLOYED FOR THE TELEPHONE CIRCUIT.

5. THE SFM SUB-SYSTEM CONSISTS OF A TELEPHONE, A MODEL 28 TTY, A VOICE PLUS TTY MODEM, AND A FULL DUPLEX 90-WATT VHF TRANSCEIVER WITH ASSOCIATED COUPLERS, AND A TELEPHONE LINE INTERFACE UNIT. THE CAIRO SUB-SYSTEM CONSISTS OF A VOICE PLUS TTY MODEM MATCHED TO THE TELEPHONE CIRCUIT, A MODEL 28 TTY, AND A TELEPHONE LINE INTERFACE UNIT FROM THE MODEM.

6. THE OUTPUT TELEPHONE LINE INTERFACE IN THE CAIRO SUB-SYSTEM WILL FEED INTO THE SWITCHBOARD AT THE MOW. FROM THIS SWITCHBOARD THE MESSAGE WILL BE SWITCHED TO A DIRECT LINE TO THE US EMBASSY SWITCHBOARD FOR NORMAL TELEPHONE CONVERSATIONS, OR TO A MOW TELEPHONE ALONGSIDE THE TTY FOR TTY LINE MAINTENANCE. THIS ARRANGEMENT WILL PROVIDE

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AN INPUT INTO THE CAIRO COMMERCIAL TELEPHONE SYSTEM THROUGH THE MOW AND US EMBASSY SWITCHBOARDS. THIS WAS THE ONLY ARRANGEMENT WHICH MOW WOULD AGREE TO AS FAR AS SFM ACCESS TO THE COMMERCIAL TELEPHONE SYSTEM.

7. THE SUEZ TO CAIRO TELEPHONE LINE IS A TWO WIRE, 600 OHM, BALANCED LINE. THE CARRIER FREQUENCY FOR THE LINE IS 2100 HZ. AT THE PRESENT TIME THE EGYPTIAN ARMY

UTILIZES A TTY CENTER FREQUENCY OF 1100 HZ WITH APPROX. PLUS/MINUS 100 HZ DEVIATION. THE TELEPHONE CALLUP TONE IS 1600 HZ. TTY CALLUP IS 1225 HZ. THE INPUT LEVEL TO THE LINE IS 0.8 NEPERS AND THE OUTPUT LEVEL IS 0.0 NEPERS. THE BAND PASS OF THE LINE IS 300 TO 3400 HERTZ.

8. THE PRIMARY POWER AT SUEZ AND CAIRO IS 220 VOLT, 50 HERTZ WITH TEN PERCENT REGULATION ON BOTH. POWER SHUT DOWN IN SUEZ IS NOT UNCOMMON. THEREFORE, PROVISIONS MUST BE MADE FOR SHORT DURATION (ONE HOUR) EMERGENCY POWER. DURING POWER OUTAGES ONLY TTY COMMUNICATIONS WILL BE HANDLED.

9. ALL EQUIPMENT IN SFM SUB-SYSTEM WILL BE PURCHASED, INSTALLED AND MAINTAINED BY USG AND CONTRACTOR. THE FULL DUPLEX VHF TRANSCEIVER AND VHF ANTENNA, AND THE TELEPHONE LINE INTERFACE IN THE SUEZ SUB-SYSTEM WILL BE PURCHASED, INSTALLED AND MAINTAINED BY THE USG AND CONTRACTOR. ALL EQUIPMENT IN THE CAIRO SUB-SYSTEM BETWEEN THE TELEPHONE LINE FROM SUEZ AND THE MOW SWITCHBOARD WILL BE PURCHASED AND INSTALLED BY USG AND CONTRACTOR. ALL EQUIPMENT IN THE CAIRO SUB-SYSTEM WILL BE MAINTAINED BY MOW. THE TELEPHONE LINE BETWEEN MOW SWITCHBOARD AND US EMBASSY WILL BE PROVIDED AND MAINTAINED BY MOW.

10. TRAINING OF MOW PERSONNEL TO MAINTAIN THE CAIRO SUB-SYSTEM WILL BE CONDUCTED BY USG. THE TRAINING IS EXPECTED TO LAST APPROXIMATELY FIVE DAYS. IT WILL INVOLVE FOUR ENGINEERS FROM MOW. TWO WILL BE EXPERIENCED SPECIFICALLY IN TTY EQUIPMENT AND TWO IN ELECTRONIC COMMUNICATIONS CIRCUITS. TRAINING LOCATION WILL BE IN E-1.

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11. BLOCK DIAGRAM AND ADDITIONAL INFORMATION WILL BE CARRIED BY WALLEN WHEN HE RETURNS ON 6 MARCH.
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Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: TELECOMMUNICATION, PEACE OBSERVATION MISSIONS, TRACKING STATIONS
Control Number: n/a
Copy: SINGLE
Draft Date: 04 MAR 1976
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Authority: KelleyW0
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 28 MAY 2004
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1976SINAI00208
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: GS
Errors: N/A
Film Number: D760083-0119
From: SINAI
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1976/newtext/t19760394/aaaadfjy.tel
Line Count: 157
Locator: TEXT ON-LINE, ON MICROFILM
Office: ACTION SSM
Original Classification: CONFIDENTIAL
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 3
Previous Channel Indicators: n/a
Previous Classification: CONFIDENTIAL
Previous Handling Restrictions: n/a
Reference: 76 SINAI 15724
Review Action: RELEASED, APPROVED
Review Authority: KelleyW0
Review Comment: n/a
Review Content Flags:
Review Date: 07 JUN 2004
Review Event:
Review Exemptions: n/a
Review History: RELEASED <07 JUN 2004 by BoyleJA>; APPROVED <04 OCT 2004 by KelleyW0>
Review Markings:

Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
04 MAY 2006

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: DIRECT COMMUNICATION BETWEEN SFM AND TERMINALS IN CAIRO AND JERUSALEM
TAGS: PFOR, ETEL, IS, EG, US
To: STATE
Type: TE
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 04 MAY 2006